

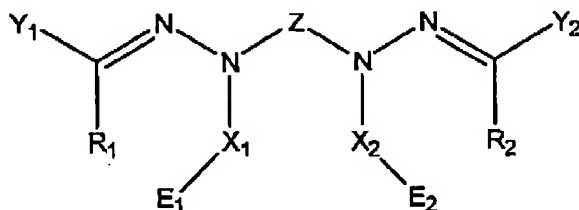
Application No. 10/749,269

AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one ~~status identified~~. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

1. (Original) An organophotoreceptor comprising an electrically conductive substrate and a photoconductive element on the electrically conductive substrate, the photoconductive element comprising:

(a) a charge transport material having the formula



where Y₁ and Y₂ are, each independently, an arylamine group;

R₁ and R₂ comprise, each independently, H, an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group;

X₁ and X₂, each independently, are bridging groups;

E₁ and E₂ are, each independently, an epoxy group; and

Z is a linking group comprising an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group; and

(b) a charge generating compound.

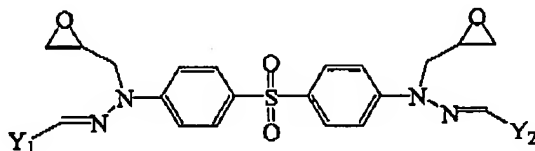
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2. (Original) An organophotoreceptor according to claim 1 wherein Z comprises an aromatic group.

3. (Original) An organophotoreceptor according to claim 1 wherein Y_1 and Y_2 are, each independently, a carbazolyl group, an (N,N-disubstituted)arylamine group, or a julolidinyl group.

4. (Original) An organophotoreceptor according to claim 1 wherein E_1 and E_2 are, each independently, an oxiranyl ring.

5. (Original) An organophotoreceptor according to claim 1 wherein the charge transport material is selected from the group of compounds represented by the following formula:



where Y_1 and Y_2 are, each independently, an arylamine group.

6. (Previously Presented) An organophotoreceptor according to claim 1 wherein X_1 and X_2 , each independently, have the formula $-(CH_2)_m-$, where m is an integer between 0 and 20, inclusive, and one or more of the methylene groups is optionally replaced by O, S, C=O, O=S=O, a heterocyclic group, an aromatic group, urethane, urea, an ester group, an NR₃ group, a CHR₄ group, or a CR₅R₆ group where R₃, R₄, R₅, and R₆ comprise, each independently, H,

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hydroxyl group, thiol group, an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group.

7. (Original) An organophotoreceptor according to claim 1 wherein the photoconductive element further comprises a second charge transport material.

8. (Original) An organophotoreceptor according to claim 7 wherein the second charge transport material comprises an electron transport compound.

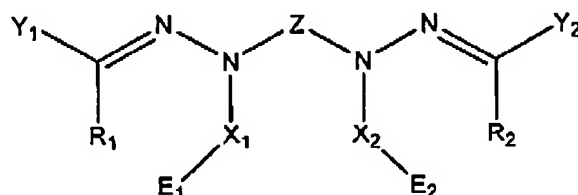
9. (Original) An organophotoreceptor according to claim 1 wherein the photoconductive element further comprises a binder.

10. (Original) An electrophotographic imaging apparatus comprising:

(a) a light imaging component; and

(b) an organophotoreceptor oriented to receive light from the light imaging component, the organophotoreceptor comprising an electrically conductive substrate and a photoconductive element on the electrically conductive substrate, the photoconductive element comprising:

(i) a charge transport material having the formula



where Y₁ and Y₂ are, each independently, an arylamine group;

R₁ and R₂ comprise, each independently, H, an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group;

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X_1 and X_2 , each independently, are bridging groups;

E_1 and E_2 are, each independently, an epoxy group; and

Z is a linking group comprising an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group; and

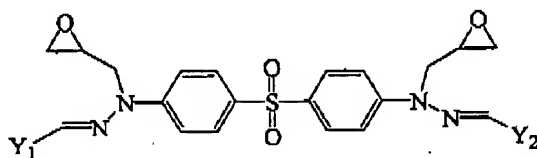
(ii) a charge generating compound.

11. (Original) An electrophotographic imaging apparatus according to claim 10 wherein Z comprises an aromatic group.

12. (Original) An electrophotographic imaging apparatus according to claim 10 wherein Y_1 and Y_2 are, each independently, a carbazolyl group, an (N,N-disubstituted)arylamine group, or a julolidinyl group.

13. (Original) An electrophotographic imaging apparatus according to claim 10 wherein E_1 and E_2 are, each independently, an oxiranyl ring.

14. (Original) An electrophotographic imaging apparatus according to claim 10 wherein the charge transport material is selected from the group of compounds represented by the following formula:



where Y_1 and Y_2 are, each independently, an arylamine group.

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15. (Previously Presented) An electrophotographic imaging apparatus according to claim 10 wherein X_1 and X_2 , each independently, have the formula $-(CH_2)_m-$, where m is an integer between 0 and 20, inclusive, and one or more of the methylene groups is optionally replaced by O, S, C=O, O=S=O, a heterocyclic group, an aromatic group, urethane, urea, an ester group, an NR_3 group, a CHR_4 group, or a CR_5R_6 group where R_3 , R_4 , R_5 , and R_6 comprise, each independently, H, hydroxyl group, thiol group, an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group.

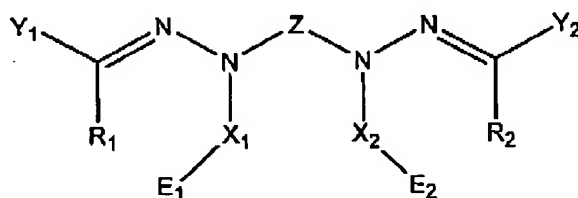
16. (Original) An electrophotographic imaging apparatus according to claim 10 wherein the photoconductive element further comprises a second charge transport material.

17. (Original) An electrophotographic imaging apparatus according to claim 16 wherein second charge transport material comprises an electron transport compound.

18. (Original) An electrophotographic imaging apparatus according to claim 10 further comprising a liquid toner dispenser.

19.-28. (Cancelled)

29. (Original) A charge transport material having the formula



where Y_1 and Y_2 are, each independently, an arylamine group;

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R_1 and R_2 comprise, each independently, H, an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group;

X_1 and X_2 , each independently, are bridging groups;

E_1 and E_2 are, each independently, an epoxy group; and

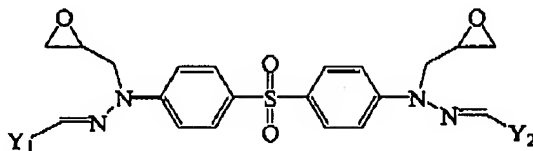
Z is a linking group comprising an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group.

30. (Original) A charge transport material according to claim 29 wherein Z comprises an aromatic group.

31. (Original) A charge transport material according to claim 29 wherein Y_1 and Y_2 are, each independently, a carbazolyl group, an (N,N-disubstituted)arylamine group, or a julolidinyl group.

32. (Original) A charge transport material according to claim 29 wherein E_1 and E_2 are, each independently, an oxiranyl ring.

33. (Original) A charge transport material according to claim 29 wherein the charge transport material is selected from the group of compounds represented by the following formula:



where Y_1 and Y_2 are, each independently, an arylamine group.

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34. (Previously Presented) A charge transport material according to claim 29 wherein X_1 and X_2 , each independently, have the formula $-(CH_2)_m-$, where m is an integer between 0 and 20, inclusive, and one or more of the methylene groups is optionally replaced by O, S, C=O, O=S=O, a heterocyclic group, an aromatic group, urethane, urea, an ester group, an NR_3 group, a CHR_4 group, or a CR_5R_6 group where R_3 , R_4 , R_5 , and R_6 comprise, each independently, H, hydroxyl group, thiol group, an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group

35.-46. (Cancelled)

47. (Previously Presented) An organophotoreceptor according to claim 2 wherein the aromatic group comprises two aryl groups bonded together by a linking group.

48. (Currently Amended) An organophotoreceptor according to claim 47 wherein the two aryl groups are phenylene and the linking group comprises ~~S, O, N, or SO_2~~ an aliphatic group, an aromatic group, an amine or SO_2 .

49. (Previously Presented) An electrophotographic imaging apparatus according to claim 11 wherein the aromatic group comprises two aryl groups bonded together by a linking group.

50. (Currently Amended) An electrophotographic imaging apparatus according to claim 49 wherein the two aryl groups are phenylene and the linking group comprises ~~S, O, N, or SO_2~~ an aliphatic group, an aromatic group, an amine or SO_2 .

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51.-52. (Cancelled)

53. (Previously Presented) A charge transport material according to claim 29 wherein the aromatic group comprises two aryl groups bonded together by a linking group.

54. (Currently Amended) A charge transport material according to claim 53 wherein the two aryl groups are phenylene and the linking group comprises ~~S, O, N, or SO₂~~ an aliphatic group, an aromatic group, an amine or SO₂.

55.-58. (Cancelled)